

**Floodlight Summary:**

Report based on lamp delivering 1000 lumens.

Maximum Intensity	362.3 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	145.0V x 153.1H
	At 50% of Imax	111.4V x 114.3H
	At 90% of Imax	52.4V x 54.5H

Beam Flux	Total	1000.0 lumens per klm.
	To 10% of Imax	970.6 lumens per klm.
	To 50% of Imax	791.4 lumens per klm.
	To 90% of Imax	225.1 lumens per klm.

Upward LOR	1.5 %
Downward LOR	98.5 %

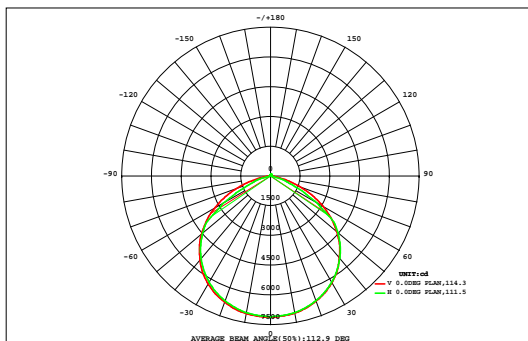
Luminaire Efficiency(Light Output Ratio)	100.0 %
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**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 0.5DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:KAR**  
**Test Date:08 September 2021**

**V(B) Range:-180 - 180DEG**  
**V(B) Interval: 0.5DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351**  
**Humidity:65.0%**  
**Test Distance:8.100m [K=1.0000]**  
**Remarks: NTB130-2835 인증시료**

**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:219.5V I:0.6223A P:131.1W PF:0.9596 Lamp Flux:19664.6x1 lm		
NAME: NTB130-2835 인증시료	TYPE:LED	WEIGHT:
SPEC.:NTB130-2835 인증시료	DIM.:	SERIAL No.:
MFR.: ICEPIPE	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:150.01lm/W	
MODENTB130-2835 인증시료		Imax(cd)	7124
NOMINAL POWER(W)	130	AVAILABILITY(%)	97.1
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	19089
NOMINAL FLUX(lm)	19664.6	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	19665
TEST VOLTAGE(V)	220	θ @50%(H,V)	114,111DEG

VERTICAL( DEG )	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.05	0.18	0.32	0.45	0.57	0.67	0.74	0.78	0.79	0.78	0.73	0.67	0.58	0.48	0.38	0.26	0.16	0.05	8.64	0.00
90	0.05	0.18	0.32	0.45	0.57	0.67	0.74	0.78	0.79	0.78	0.73	0.67	0.58	0.48	0.38	0.26	0.16	0.05	8.64	0.00
80	0.06	0.36	1.30	3.01	5.27	7.75	9.93	11.4	12.0	11.5	9.95	7.84	5.40	3.23	1.63	0.64	0.21	0.05	91.5	21.2
70	0.08	1.12	5.01	13.0	22.7	33.1	42.2	48.4	51.3	50.0	45.0	37.2	27.7	17.5	9.00	3.21	0.57	0.06	407	375
60	0.13	2.46	11.2	28.3	48.5	70.7	90.1	103	110	109	100	84.8	64.4	42.4	23.2	8.42	1.55	0.08	899	888
50	0.20	4.07	18.0	41.4	69.6	98.1	123	141	150	149	139	120	93.8	64.9	37.1	14.9	2.96	0.12	1266	1260
40	0.28	5.69	23.7	52.1	85.3	118	146	166	176	175	164	143	114	80.8	47.9	20.6	4.43	0.17	1524	1519
30	0.36	7.11	28.3	60.2	96.9	133	163	184	195	194	182	160	129	92.6	56.2	25.0	5.75	0.22	1714	1710
20	0.43	8.14	31.4	65.6	105	143	174	196	207	207	194	171	139	100	61.9	28.3	6.73	0.27	1838	1835
10	0.46	8.68	33.0	68.5	108	148	180	202	213	212	200	177	144	105	64.9	30.0	7.26	0.30	1903	1900
0	0.46	8.70	33.0	68.5	108	147	179	202	213	213	201	178	145	105	65.1	30.1	7.29	0.30	1905	1902
-10	0.43	8.19	31.4	65.6	104	142	174	196	207	207	195	172	140	101	62.4	28.5	6.82	0.28	1842	1839
-20	0.37	7.19	28.3	60.1	96.7	133	163	184	195	195	183	161	130	93.5	56.8	25.5	5.89	0.23	1720	1716
-30	0.28	5.83	23.8	52.0	85.2	118	147	166	176	176	165	144	115	81.5	48.5	21.1	4.61	0.17	1531	1527
-40	0.20	4.24	18.1	41.5	69.9	98.8	124	142	150	150	140	121	95.2	65.9	37.9	15.6	3.15	0.12	1277	1271
-50	0.13	2.59	11.3	28.4	48.9	71.4	90.8	105	112	111	103	87.2	67.0	44.5	24.6	9.02	1.72	0.08	918	907
-60	0.09	1.13	5.06	12.8	22.8	33.4	42.7	49.4	52.5	51.7	47.3	39.2	29.5	19.0	9.81	3.51	0.64	0.06	421	390
-70	0.06	0.37	1.33	3.04	5.59	8.32	10.7	12.5	13.1	12.7	11.4	9.02	6.39	3.96	1.94	0.77	0.24	0.06	102	27.7
-80	0.06	0.19	0.34	0.50	0.64	0.74	0.82	0.87	0.89	0.87	0.82	0.75	0.66	0.54	0.41	0.29	0.17	0.06	9.63	0.00
-90	0.06	0.19	0.34	0.50	0.64	0.74	0.82	0.87	0.89	0.87	0.82	0.75	0.66	0.54	0.41	0.29	0.17	0.06	9.63	0.00
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	
Φ t	4.14	76.2	305	665	1084	1505	1861	2111	2236	2226	2081	1814	1446	1023	610	266	60.2	2.69	19376	---
Φ a	0.00	52.2	288	649	1067	1487	1844	2096	2222	2211	2066	1796	1428	1005	593	248	36.4	0.00	---	19089

one-half-peak spread: U:56.0,D:55.8 , L:57.2,R:57.6

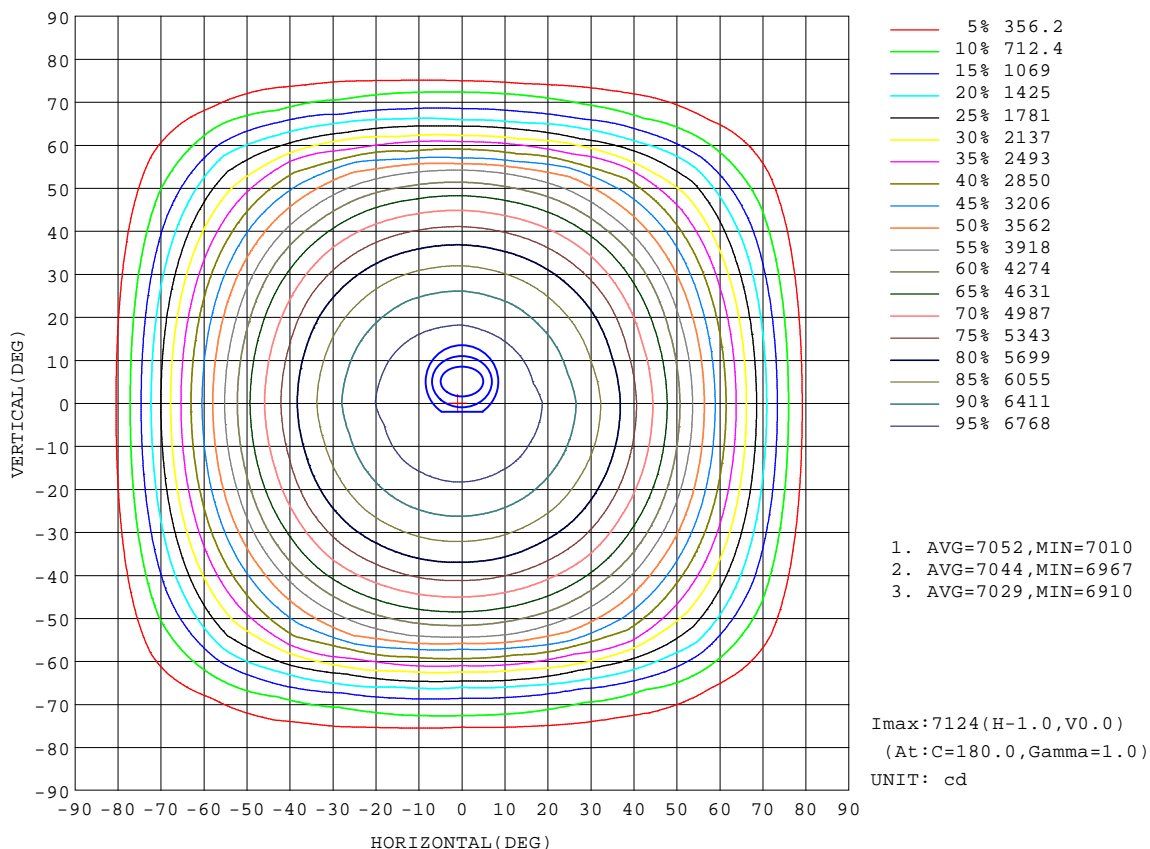
NEMA Beam Type: Type 7

**H(β) Range:-90 - 90DEG**  
**H(β) Interval: 0.5DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:KAR**  
**Test Date:08 September 2021**

**V(B) Range:-180 - 180DEG**  
**V(B) Interval: 0.5DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351**  
**Humidity:65.0%**  
**Test Distance:8.100m [K=1.0000]**  
**Remarks: NTB130-2835 인증시료**

**ISOCANDELA DIAGRAM**

Test:U:219.5V I:0.6223A P:131.1W PF:0.9596 Lamp Flux:19664.6x1 lm		
NAME: NTB130-2835 인증시료	TYPE:LED	WEIGHT:
SPEC.:NTB130-2835 인증시료	DIM.:	SERIAL No.:
MFR.: ICEPIPE	SUR.:	Shielding Angle:

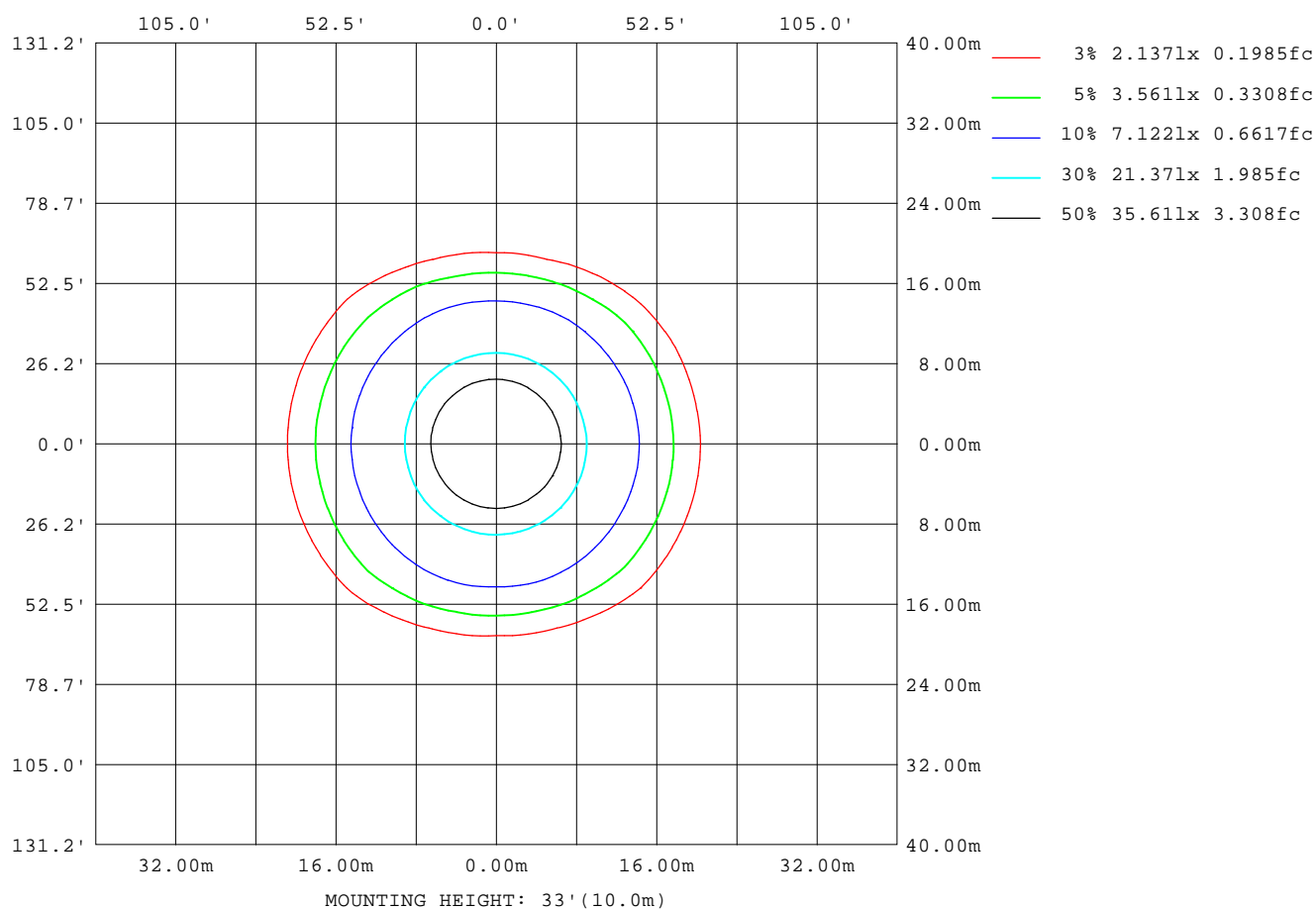


**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 0.5DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:KAR**  
**Test Date:08 September 2021**

**V(B) Range:-180 - 180DEG**  
**V(B) Interval: 0.5DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351**  
**Humidity:65.0%**  
**Test Distance:8.100m [K=1.0000]**  
**Remarks: NTB130-2835 인증시료**

**ISOLUX DIAGRAM**

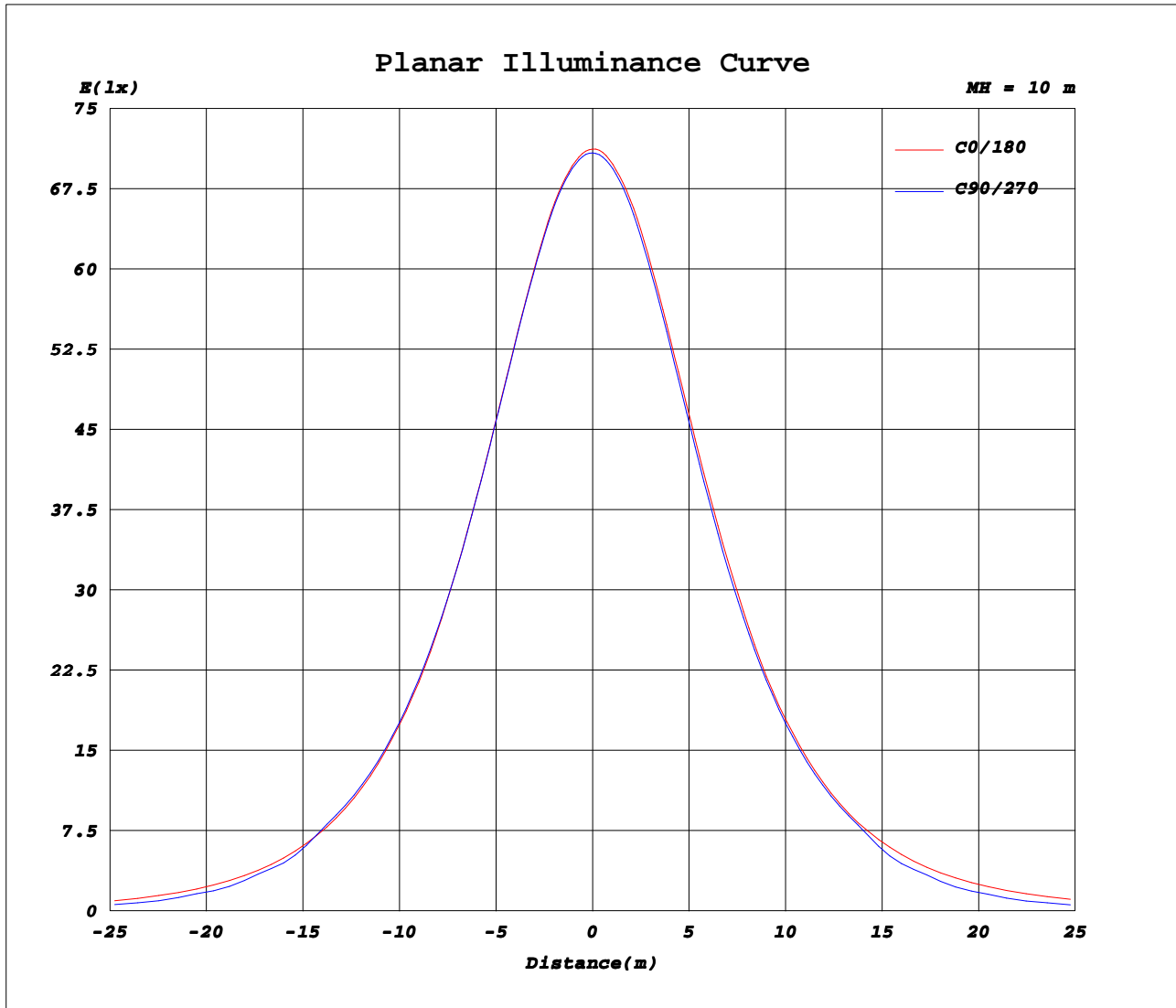
Test:U:219.5V I:0.6223A P:131.1W PF:0.9596 Lamp Flux:19664.6x1 lm		
NAME: NTB130-2835 인증시료	TYPE:LED	WEIGHT:
SPEC.:NTB130-2835 인증시료	DIM.:	SERIAL No.:
MFR.: ICEPIPE	SUR.:	Shielding Angle:



**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 0.5DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:KAR**  
**Test Date:08 September 2021**

**V(B) Range:-180 - 180DEG**  
**V(B) Interval: 0.5DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351**  
**Humidity:65.0%**  
**Test Distance:8.100m [K=1.0000]**  
**Remarks: NTB130-2835 인증시료**

**Planar Illuminance Curve**



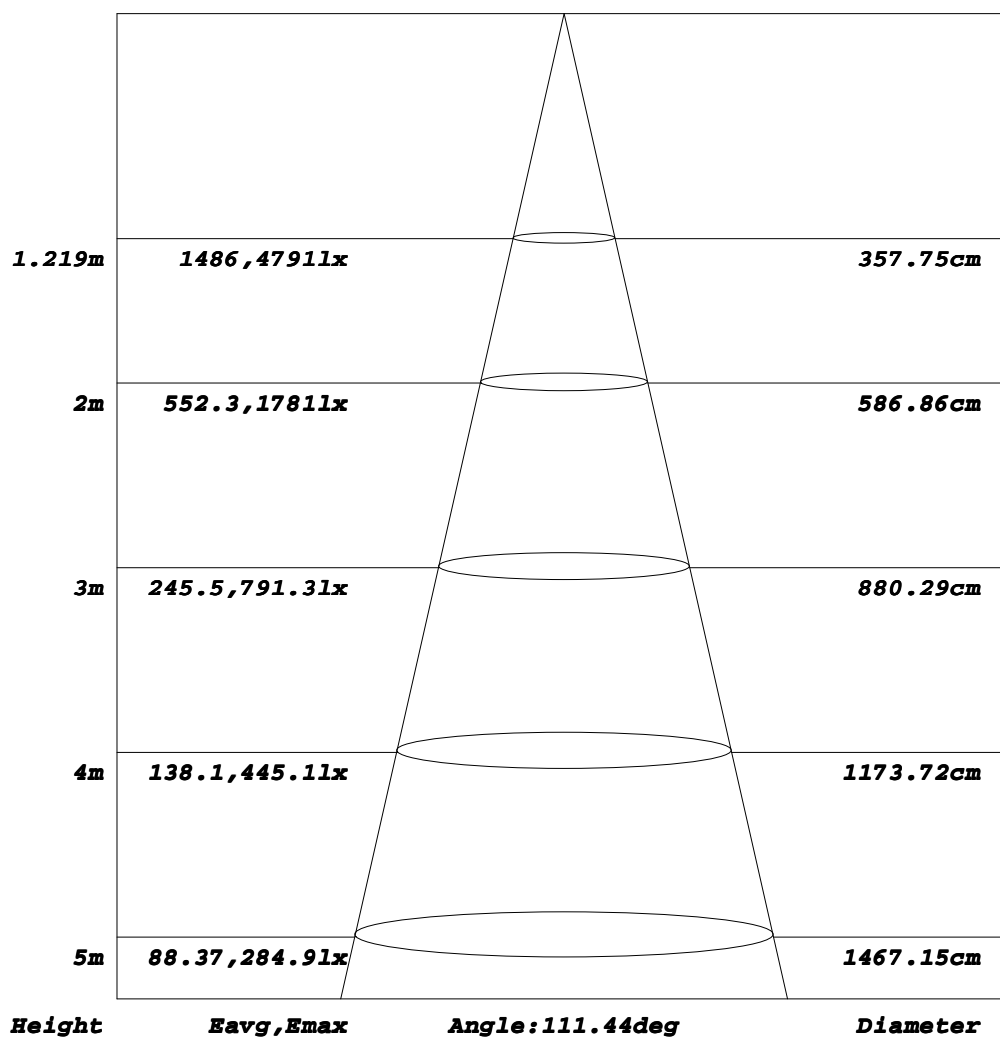
**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 0.5DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:KAR**  
**Test Date:08 September 2021**

**V(B) Range:-180 - 180DEG**  
**V(B) Interval: 0.5DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351**  
**Humidity:65.0%**  
**Test Distance:8.100m [K=1.0000]**  
**Remarks: NTB130-2835 인증시료**

**AAI Figure**

Test:U:219.5V I:0.6223A P:131.1W PF:0.9596 Lamp Flux:19664.6x1 lm		
NAME: NTB130-2835 인증시료	TYPE:LED	WEIGHT:
SPEC.:NTB130-2835 인증시료	DIM.:	SERIAL No.:
MFR.: ICEPIPE	SUR.:	Shielding Angle:

**Flux out:15255 lm**



Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

**H(β) Range: -90 - 90DEG**  
**H(β) Interval: 0.5DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: KAR**  
**Test Date: 08 September 2021**

**V(B) Range: -180 - 180DEG**  
**V(B) Interval: 0.5DEG**  
**Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.351**  
**Humidity: 65.0%**  
**Test Distance: 8.100m [K=1.0000]**  
**Remarks: NTB130-2835 인증시료**

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:219.5V I:0.6223A P:131.1W PF:0.9596 Lamp Flux:19664.6x1 lm		
NAME: NTB130-2835 인증시료	TYPE:LED	WEIGHT:
SPEC.:NTB130-2835 인증시료	DIM.:	SERIAL No.:
MFR.: ICEPIPE	SUR.:	Shielding Angle:

Table--1

UNIT: cd

H (DEG) V (DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-180	19.4	22.4	26.0	30.1	34.4	39.0	43.7	48.3	52.7	57.0	61.2	65.4	69.5	73.6	77.5	80.9	83.6	85.7	87.0
-170	19.4	22.4	26.1	30.1	34.4	39.0	43.6	48.2	52.5	56.6	60.7	64.7	68.5	72.1	75.4	78.5	81.0	82.8	83.3
-160	19.4	22.3	25.9	29.8	33.9	38.3	42.7	47.0	51.0	54.6	58.1	61.5	64.7	67.7	70.4	72.8	74.8	76.0	76.4
-150	19.4	22.1	25.5	29.1	32.9	36.9	40.8	44.5	47.9	51.2	54.2	57.0	59.6	62.0	64.1	65.8	67.2	68.0	68.4
-140	19.4	21.9	24.8	28.0	31.4	34.7	37.9	41.0	44.0	46.8	49.5	51.8	53.9	55.8	57.4	58.7	59.7	60.4	60.8
-130	19.4	21.5	24.0	26.8	29.5	32.0	34.5	37.0	39.4	41.6	43.7	45.7	47.5	49.0	50.3	51.4	52.2	52.8	53.1
-120	19.4	21.1	23.1	25.3	27.3	29.1	30.9	32.7	34.3	35.9	37.4	38.9	40.2	41.3	42.2	43.0	43.6	44.0	44.2
-110	19.4	20.7	22.1	23.7	24.9	26.1	27.2	28.3	29.3	30.2	31.1	32.0	32.7	33.3	33.8	34.3	34.6	34.9	35.0
-100	19.4	20.2	21.1	22.1	22.6	23.2	23.7	24.1	24.5	24.8	25.2	25.5	25.8	26.0	26.2	26.3	26.5	26.5	26.6
-90	19.4	20.1	20.8	21.5	21.4	21.4	21.4	21.3	21.1	21.0	20.9	20.9	20.8	20.6	20.5	20.4	20.2	20.0	19.9
-80	19.4	20.7	23.7	29.0	34.2	38.2	37.8	46.6	53.4	45.9	46.8	50.8	48.0	47.8	48.3	47.8	47.8	47.5	46.7
-70	19.4	22.3	36.2	66.1	130	211	267	367	484	539	633	717	762	814	881	902	919	926	919
-60	19.4	26.1	65.8	191	396	590	855	1154	1430	1665	1884	2074	2308	2419	2523	2672	2722	2756	2759
-50	19.4	32.6	125	388	733	1111	1590	2029	2412	2832	3196	3512	3781	4007	4184	4318	4408	4457	4465
-40	19.4	42.7	202	576	1065	1616	2165	2686	3179	3623	4035	4393	4706	4951	5138	5285	5386	5441	5450
-30	19.4	53.6	285	748	1359	2008	2638	3223	3762	4261	4685	5076	5404	5661	5861	6011	6120	6180	6194
-20	19.4	62.8	350	892	1591	2302	2979	3621	4179	4703	5145	5558	5881	6145	6356	6515	6623	6684	6705
-10	19.4	68.8	387	984	1734	2483	3194	3855	4448	4967	5424	5842	6160	6424	6635	6800	6913	6974	7002
0	19.4	71.2	395	1012	1783	2546	3270	3944	4548	5074	5542	5969	6294	6567	6774	6945	7049	7104	7122
10	19.4	68.7	383	979	1732	2484	3193	3858	4450	4977	5435	5860	6183	6450	6661	6823	6927	6981	6998
20	19.4	62.6	344	881	1586	2306	2984	3623	4184	4712	5154	5572	5896	6154	6358	6517	6625	6677	6696
30	19.4	53.1	281	733	1349	2006	2638	3223	3768	4269	4693	5073	5399	5654	5856	6008	6108	6165	6179
40	19.4	42.0	201	552	1044	1606	2163	2683	3182	3623	4025	4370	4684	4936	5131	5269	5363	5420	5433
50	19.4	32.0	127	366	704	1100	1584	2016	2409	2803	3155	3475	3751	3987	4157	4281	4368	4420	4432
60	19.4	25.4	64.9	189	372	584	866	1181	1430	1651	1844	2078	2296	2374	2482	2623	2665	2697	2700
70	19.4	21.6	34.4	65.4	129	207	280	374	480	531	620	704	753	803	867	884	903	915	913
80	19.4	20.2	22.2	26.7	31.6	34.8	33.0	41.6	47.5	38.3	38.1	42.5	39.8	39.2	39.2	38.6	38.6	38.3	37.8
90	19.4	19.6	19.8	20.0	20.0	19.9	19.9	19.8	19.6	19.5	19.4	19.3	19.2	19.1	19.0	18.9	18.7	18.6	18.5
100	19.4	19.9	20.4	21.0	21.5	22.0	22.5	23.0	23.4	23.8	24.1	24.3	24.6	24.8	25.0	25.1	25.2	25.2	25.1
110	19.4	20.3	21.5	22.6	23.8	24.9	26.0	27.0	28.0	29.0	29.9	30.6	31.3	31.9	32.5	32.9	33.2	33.3	33.3
120	19.4	20.8	22.5	24.3	26.1	27.8	29.6	31.3	33.0	34.6	36.2	37.5	38.7	39.8	40.8	41.5	42.1	42.4	42.5
130	19.4	21.2	23.5	25.8	28.3	30.7	33.2	35.6	38.0	40.3	42.4	44.4	46.1	47.6	48.9	50.0	50.7	51.2	51.4
140	19.4	21.6	24.3	27.2	30.3	33.4	36.5	39.6	42.6	45.5	48.1	50.5	52.6	54.5	56.1	57.4	58.4	59.0	59.2
150	19.4	22.0	25.1	28.4	32.0	35.7	39.4	43.1	46.6	49.9	52.9	55.8	58.5	60.9	63.0	64.8	66.1	66.9	67.2
160	19.4	22.2	25.6	29.3	33.3	37.5	41.7	45.8	49.7	53.4	57.0	60.4	63.6	66.8	69.6	72.0	73.9	75.2	75.5
170	19.4	22.3	25.9	29.9	34.1	38.6	43.2	47.6	51.8	55.9	59.9	63.8	67.7	71.4	74.9	78.2	80.8	82.5	82.9
180	19.4	22.4	26.0	30.1	34.4	39.0	43.7	48.3	52.7	57.0	61.2	65.4	69.5	73.6	77.5	80.9	83.6	85.7	87.0

H(β) Range:-90 - 90DEG

H(β) Interval: 0.5DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:KAR

Test Date:08 September 2021

V(B) Range:-180 - 180DEG

V(B) Interval: 0.5DEG

Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351

Humidity:65.0%

Test Distance:8.100m [K=1.0000]

Remarks: NTB130-2835 인증시료

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:219.5V I:0.6223A P:131.1W PF:0.9596 Lamp Flux:19664.6x1 lm		
NAME: NTB130-2835 인증시료	TYPE:LED	WEIGHT:
SPEC.:NTB130-2835 인증시료	DIM.:	SERIAL No.:
MFR.: ICEPIPE	SUR.:	Shielding Angle:

Table--2

UNIT: cd

H( DEG) V( DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
-180	85.9	84.3	81.9	78.8	75.3	71.7	67.8	63.8	59.7	55.5	51.3	46.7	42.0	37.4	33.0	28.8	24.9	21.4	
-170	82.5	81.0	79.0	76.2	73.2	69.8	66.2	62.4	58.5	54.6	50.5	46.1	41.5	37.0	32.7	28.6	24.8	21.4	
-160	75.8	74.8	73.1	70.9	68.5	65.7	62.7	59.5	56.1	52.5	48.6	44.5	40.3	36.1	32.1	28.2	24.6	21.4	
-150	68.1	67.3	66.2	64.7	62.8	60.7	58.3	55.6	52.6	49.4	45.8	42.1	38.4	34.7	31.0	27.6	24.3	21.4	
-140	60.6	60.2	59.4	58.3	56.8	55.0	53.0	50.7	48.1	45.3	42.3	39.1	36.0	32.8	29.7	26.7	24.0	21.4	
-130	52.9	52.5	51.9	51.0	49.8	48.4	46.7	44.8	42.7	40.5	38.1	35.6	33.1	30.6	28.2	25.8	23.5	21.4	
-120	44.1	43.8	43.3	42.7	41.9	40.9	39.6	38.3	36.8	35.2	33.6	31.8	30.0	28.2	26.4	24.7	23.0	21.4	
-110	34.9	34.8	34.5	34.2	33.7	33.2	32.5	31.7	30.9	29.9	29.0	27.9	26.8	25.7	24.6	23.5	22.5	21.4	
-100	26.6	26.5	26.4	26.3	26.2	26.0	25.8	25.5	25.2	24.9	24.5	24.2	23.7	23.3	22.8	22.4	21.9	21.4	
-90	19.8	19.8	19.7	19.8	19.9	20.0	20.1	20.2	20.3	20.5	20.7	20.8	20.9	21.1	21.2	21.3	21.3	21.4	
-80	46.5	45.9	44.9	44.2	42.9	41.5	40.5	38.8	37.1	35.8	32.1	29.5	27.7	25.2	22.9	21.2	20.9	21.4	
-70	910	888	856	811	737	673	613	511	435	361	248	185	127	67.4	37.9	25.7	21.0	21.4	
-60	2735	2677	2590	2417	2303	2128	1878	1706	1446	1225	934	660	434	268	110	38.1	22.3	21.4	
-50	4437	4368	4257	4103	3902	3652	3350	3012	2645	2198	1820	1370	925	568	258	68.7	24.6	21.4	
-40	5425	5353	5233	5066	4854	4578	4247	3875	3453	2978	2480	1946	1404	886	431	124	28.0	21.4	
-30	6167	6091	5966	5799	5583	5303	4949	4547	4094	3587	3025	2419	1787	1164	590	184	32.6	21.4	
-20	6676	6601	6479	6307	6082	5801	5450	5023	4562	4016	3427	2776	2077	1378	725	236	36.8	21.4	
-10	6971	6906	6780	6606	6383	6104	5756	5306	4839	4274	3671	2987	2259	1509	812	270	39.6	21.4	
0	7090	7027	6902	6718	6496	6202	5859	5399	4930	4358	3751	3059	2319	1550	838	280	40.7	21.4	
10	6952	6874	6745	6565	6338	6054	5709	5265	4806	4248	3652	2972	2245	1499	804	265	39.4	21.4	
20	6653	6575	6444	6263	6042	5762	5410	4980	4518	3971	3392	2746	2050	1358	711	228	36.4	21.4	
30	6142	6060	5936	5761	5536	5257	4908	4513	4061	3552	2989	2371	1747	1132	573	176	32.0	21.4	
40	5397	5314	5196	5031	4813	4531	4200	3828	3416	2949	2437	1902	1351	847	409	119	27.3	21.4	
50	4395	4317	4203	4052	3854	3596	3277	2949	2554	2144	1774	1276	866	535	229	65.8	24.0	21.4	
60	2669	2582	2455	2319	2208	1978	1794	1585	1365	1101	877	607	409	231	98.9	35.6	21.7	21.4	
70	900	874	836	785	724	659	580	480	415	316	230	174	104	58.0	33.9	24.0	20.5	21.4	
80	37.5	36.9	36.0	35.5	34.7	33.6	32.7	31.5	30.1	29.1	27.7	26.0	24.7	22.8	21.0	20.0	20.4	21.4	
90	18.5	18.5	18.5	18.6	18.6	18.6	18.7	18.9	19.0	19.1	19.1	19.2	19.4	19.5	19.6	20.2	20.8	21.4	
100	25.1	25.1	25.0	24.8	24.7	24.4	24.2	24.0	23.7	23.3	22.9	22.4	22.0	21.6	21.2	21.3	21.4	21.4	
110	33.3	33.2	32.9	32.6	32.1	31.5	30.8	30.1	29.2	28.2	27.2	26.1	25.0	23.9	23.0	22.5	21.9	21.4	
120	42.5	42.2	41.7	41.0	40.1	39.1	37.9	36.6	35.0	33.4	31.7	29.9	28.1	26.4	24.9	23.7	22.5	21.4	
130	51.3	51.0	50.3	49.3	48.0	46.6	44.9	43.0	40.8	38.5	36.1	33.7	31.2	28.7	26.7	24.9	23.1	21.4	
140	59.1	58.7	57.8	56.6	55.1	53.2	51.1	48.8	46.1	43.2	40.2	37.1	34.0	31.1	28.5	26.0	23.6	21.4	
150	66.8	66.0	64.7	63.1	61.1	58.9	56.3	53.5	50.5	47.3	43.7	40.1	36.6	33.3	30.1	27.0	24.1	21.4	
160	74.9	73.6	71.8	69.4	66.7	63.7	60.6	57.3	53.9	50.3	46.7	42.9	39.0	35.1	31.4	27.8	24.4	21.4	
170	81.9	80.2	77.7	74.7	71.3	67.7	64.2	60.6	57.0	53.3	49.4	45.2	40.9	36.5	32.4	28.4	24.7	21.4	
180	85.9	84.3	81.9	78.8	75.3	71.7	67.8	63.8	59.7	55.5	51.3	46.7	42.0	37.4	33.0	28.8	24.9	21.4	

**H(β) Range:-90 - 90DEG**

**H(β) Interval: 0.5DEG**

**Test Speed: HIGH**

**Temperature:25.3DEG**

**Operators:KAR**

**Test Date:08 September 2021**

**V(B) Range:-180 - 180DEG**

**V(B) Interval: 0.5DEG**

**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351**

**Humidity:65.0%**

**Test Distance:8.100m [K=1.0000]**

**Remarks: NTB130-2835 인증시료**



**Photometric Data Table [cd]**

G/C	0.0	15.0	30.0	45.0	60.0	75.0	90.0	105.0	120.0	135.0
0.0	7122	7114	7103	7100	7093	7090	7086	7083	7077	7074
3.0	7108	7100	7089	7087	7080	7081	7078	7074	7073	7069
6.0	7079	7068	7059	7058	7055	7055	7055	7050	7050	7047
9.0	7042	7032	7019	7016	7014	7018	7019	7018	7013	7009
12.0	6986	6973	6959	6958	6952	6954	6960	6961	6955	6959
15.0	6902	6890	6880	6882	6872	6873	6878	6881	6879	6893
18.0	6794	6786	6778	6780	6773	6774	6779	6783	6788	6801
21.0	6679	6670	6659	6659	6655	6659	6666	6668	6678	6689
24.0	6546	6534	6522	6520	6519	6522	6529	6535	6550	6556
27.0	6385	6376	6365	6362	6360	6366	6373	6384	6397	6407
30.0	6202	6198	6186	6188	6181	6190	6194	6209	6224	6242
33.0	6009	6001	5985	5991	5981	5991	5995	6015	6029	6053
36.0	5774	5776	5766	5770	5758	5771	5774	5796	5814	5844
39.0	5496	5504	5517	5524	5514	5527	5536	5561	5576	5609
42.0	5212	5214	5224	5257	5253	5265	5275	5301	5319	5352
45.0	4930	4924	4912	4961	4960	4979	4992	5018	5041	5073
48.0	4599	4607	4593	4624	4648	4667	4684	4709	4735	4759
51.0	4240	4242	4253	4265	4314	4334	4352	4381	4405	4409
54.0	3876	3875	3861	3906	3953	3983	3999	4031	4053	4045
57.0	3473	3483	3472	3520	3559	3379	3248	3445	3679	3673
60.0	3059	3057	3053	3093	2912	2768	2759	2819	3083	3273
63.0	2608	2623	2613	2667	2343	2083	2038	2160	2462	2839
66.0	2165	2176	2165	1957	1655	1535	1431	1619	1798	2186
69.0	1711	1721	1725	1424	1091	1045	1006	1111	1287	1648
72.0	1265	1282	1205	885.5	723.4	753.6	765.5	792.4	810.0	1094
75.0	838.2	863.1	698.6	487.8	498.5	453.0	396.4	497.7	571.3	624.2
78.0	469.4	497.4	313.5	275.1	136.0	62.56	60.63	96.80	237.1	378.4
81.0	203.7	206.4	134.6	48.98	43.02	41.70	42.08	44.24	48.88	111.0
84.0	59.53	51.07	34.24	31.60	29.02	28.33	28.57	30.30	33.43	37.97
87.0	23.26	23.94	22.77	22.46	22.35	22.71	23.13	23.70	24.35	25.58
90.0	21.43	21.19	20.81	20.33	20.01	19.74	19.88	20.37	20.77	21.04
93.0	23.45	23.08	22.76	22.28	21.92	21.57	21.56	21.66	21.93	22.11
96.0	25.65	25.26	24.89	24.39	24.02	23.63	23.61	23.66	23.90	24.09
99.0	27.97	27.60	26.68	26.29	25.86	25.80	25.83	26.07	26.26	26.26
102.0	30.41	30.03	29.66	29.10	28.70	28.23	28.16	28.15	28.39	28.56
105.0	32.97	32.58	32.18	31.63	31.19	30.75	30.62	30.59	30.81	30.99
108.0	35.61	35.22	34.79	34.24	33.82	33.33	33.18	33.11	33.34	33.52
111.0	38.33	37.90	37.46	36.94	36.50	36.01	35.86	35.76	35.97	36.10
114.0	41.12	40.65	40.18	39.64	39.24	38.77	38.61	38.48	38.66	38.76
117.0	43.91	43.41	42.92	42.38	41.97	41.53	41.37	41.24	41.36	41.43
120.0	46.74	46.19	45.67	45.14	44.72	44.30	44.16	43.99	44.05	44.12
123.0	49.50	48.92	48.39	47.84	47.46	47.05	46.93	46.71	46.74	46.78
126.0	52.13	51.54	51.02	50.48	50.11	49.74	49.62	49.37	49.35	49.36
129.0	54.69	54.08	53.52	53.00	52.65	52.31	52.19	51.94	51.85	51.82
132.0	57.19	56.54	55.94	55.44	55.11	54.80	54.71	54.39	54.24	54.22
135.0	59.67	58.98	58.30	57.80	57.50	57.16	57.07	56.70	56.56	56.61
138.0	62.13	61.44	60.63	60.08	59.73	59.44	59.31	58.96	58.87	58.99
141.0	64.59	63.89	63.24	62.34	61.95	61.61	61.46	61.20	61.20	61.41
144.0	67.01	66.31	65.33	64.63	64.18	63.78	63.68	63.48	63.60	63.84
147.0	69.41	68.72	67.70	66.95	66.46	66.02	65.97	65.84	66.05	66.29
150.0	71.70	71.07	70.07	69.31	68.82	68.41	68.37	68.34	68.55	68.76
153.0	73.92	73.35	72.40	71.61	71.15	70.80	70.81	70.81	70.99	71.15
156.0	76.06	75.57	74.71	73.89	73.50	73.19	73.23	73.24	73.41	73.53
159.0	78.15	77.75	76.94	76.20	75.75	75.51	75.57	75.67	75.78	75.90
162.0	80.10	79.82	79.08	78.42	77.98	77.76	77.87	77.98	78.08	78.24
165.0	81.91	81.70	81.00	80.45	80.10	79.95	80.10	80.20	80.30	80.40
168.0	83.42	83.27	82.69	82.26	81.98	81.94	82.14	82.25	82.28	82.26
171.0	84.67	84.53	84.10	83.81	83.59	83.67	83.88	83.99	83.93	83.77
174.0	85.60	85.55	85.25	85.08	84.95	85.13	85.36	85.44	85.22	84.99
177.0	86.26	86.27	86.07	86.04	86.04	86.30	86.50	86.42	86.08	85.76
180.0	86.51	86.51	86.40	86.47	86.59	86.89	86.99	86.85	86.43	86.15
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	7070	7068	7122	7114	7103	7100	7093	7090	7086	7083
3.0	7067	7065	7120	7106	7099	7092	7088	7085	7077	7072
6.0	7043	7041	7094	7081	7075	7067	7063	7057	7052	7045
9.0	7006	7008	7061	7049	7040	7028	7023	7019	7015	7004
12.0	6956	6961	7018	7000	6987	6975	6965	6959	6955	6941
15.0	6887	6888	6945	6928	6916	6903	6886	6876	6873	6856
18.0	6799	6797	6846	6831	6824	6813	6793	6777	6773	6754
21.0	6687	6685	6736	6720	6712	6697	6684	6661	6656	6636
24.0	6559	6561	6613	6591	6583	6562	6551	6525	6518	6496
27.0	6412	6415	6465	6444	6433	6410	6398	6371	6359	6338
30.0	6245	6251	6294	6274	6262	6240	6223	6194	6179	6159

**H(B) Range:-90 - 90DEG**

**H(B) Interval: 0.5DEG**

**Test Speed: HIGH**

**Temperature:25.3DEG**

**Operators:KAR**

**Test Date:08 September 2021**

**V(B) Range:-180 - 180DEG**

**V(B) Interval: 0.5DEG**

**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351**

**Humidity:65.0%**

**Test Distance:8.100m [K=1.0000]**

**Remarks: NTB130-2835 인증시료**

**Photometric Data Table [cd]**

33.0	6058	6063	6106	6087	6075	6048	6028	5995	5983	5957
36.0	5847	5857	5892	5876	5864	5837	5812	5777	5760	5735
39.0	5619	5610	5635	5627	5633	5599	5572	5538	5521	5492
42.0	5353	5325	5353	5339	5360	5339	5313	5275	5255	5226
45.0	5048	5037	5074	5051	5052	5056	5028	4986	4968	4935
48.0	4731	4745	4776	4755	4740	4737	4723	4673	4654	4620
51.0	4409	4406	4425	4411	4416	4381	4389	4340	4316	4280
54.0	4044	4034	4060	4038	4050	4017	4035	3979	3952	3915
57.0	3644	3668	3697	3672	3651	3642	3644	3396	3199	3232
60.0	3246	3257	3270	3254	3256	3224	3086	2765	2700	2701
63.0	2815	2834	2854	2837	2810	2785	2417	2101	2005	1982
66.0	2383	2383	2400	2388	2377	2194	1795	1560	1395	1407
69.0	1935	1932	1945	1928	1922	1631	1247	1072	994.6	983.1
72.0	1437	1477	1472	1464	1474	1074	803.2	771.0	749.2	730.6
75.0	916.6	1041	1012	1017	919.6	613.9	551.0	435.0	345.8	319.9
78.0	458.9	656.1	608.4	620.9	491.6	358.9	201.6	51.78	46.70	45.97
81.0	202.8	337.6	307.4	317.9	203.0	102.3	40.00	36.43	34.83	33.98
84.0	56.40	101.0	105.0	108.8	51.47	32.38	29.55	27.39	26.36	25.70
87.0	27.51	31.45	28.39	29.32	25.53	24.09	23.64	22.87	22.37	21.67
90.0	21.36	21.48	19.38	20.04	19.88	19.53	19.16	18.85	18.54	18.52
93.0	22.40	22.38	21.05	21.30	21.28	21.12	20.80	20.58	20.30	20.31
96.0	24.38	24.42	23.07	23.28	23.20	23.04	22.72	22.50	22.24	22.30
99.0	26.57	26.63	25.26	25.44	25.32	25.15	24.81	24.61	24.38	24.46
102.0	28.90	28.95	27.59	27.73	27.59	27.42	27.07	26.88	26.66	26.80
105.0	31.30	31.43	30.06	30.15	29.98	29.80	29.43	29.27	29.07	29.25
108.0	33.84	33.96	32.63	32.67	32.45	32.29	31.93	31.76	31.59	31.79
111.0	36.43	36.59	35.31	35.27	35.01	34.86	34.52	34.37	34.23	34.45
114.0	39.07	39.28	38.09	37.95	37.65	37.49	37.20	37.07	36.99	37.18
117.0	41.76	42.01	40.91	40.69	40.35	40.16	39.87	39.80	39.77	39.96
120.0	44.45	44.73	43.73	43.44	43.04	42.85	42.58	42.54	42.52	42.72
123.0	47.07	47.39	46.52	46.14	45.69	45.52	45.26	45.26	45.30	45.47
126.0	49.65	50.01	49.22	48.78	48.28	48.10	47.88	47.92	47.98	48.15
129.0	52.12	52.51	51.86	51.35	50.81	50.58	50.42	50.50	50.58	50.74
132.0	54.58	55.02	54.43	53.87	53.29	53.02	52.85	52.95	53.09	53.24
135.0	56.98	57.49	56.97	56.38	55.77	55.44	55.22	55.31	55.48	55.64
138.0	59.41	59.96	59.50	58.93	58.25	57.89	57.59	57.61	57.75	57.95
141.0	61.87	62.44	62.05	61.46	60.78	60.37	60.01	59.95	60.00	60.16
144.0	64.30	64.90	64.56	63.99	63.27	62.87	62.48	62.35	62.29	62.39
147.0	66.73	67.34	67.04	66.49	65.76	65.36	64.96	64.80	64.67	64.71
150.0	69.13	69.76	69.52	69.00	68.30	67.86	67.47	67.32	67.15	67.14
153.0	71.56	72.11	71.96	71.47	70.83	70.37	70.01	69.85	69.70	69.61
156.0	73.96	74.42	74.37	73.91	73.35	72.86	72.53	72.37	72.23	72.09
159.0	76.28	76.64	76.70	76.30	75.82	75.37	75.01	74.86	74.69	74.54
162.0	78.53	78.77	78.93	78.57	78.23	77.86	77.47	77.25	77.07	76.90
165.0	80.52	80.65	80.90	80.55	80.38	80.19	79.86	79.64	79.41	79.27
168.0	82.24	82.28	82.61	82.31	82.18	82.12	82.05	81.84	81.62	81.44
171.0	83.66	83.63	84.12	83.83	83.76	83.74	83.84	83.73	83.56	83.35
174.0	84.77	84.74	85.36	85.10	85.11	85.09	85.25	85.42	85.24	85.00
177.0	85.55	85.55	86.25	85.98	86.00	86.03	86.25	86.48	86.53	86.27
180.0	85.99	85.94	86.64	86.43	86.46	86.42	86.65	86.85	87.02	86.83
G/C	300.0	315.0	330.0	345.0						
0.0	7077	7074	7070	7068						
3.0	7064	7060	7055	7055						
6.0	7037	7030	7029	7022						
9.0	6997	6987	6983	6983						
12.0	6931	6925	6924	6923						
15.0	6848	6847	6847	6842						
18.0	6749	6743	6744	6739						
21.0	6631	6620	6623	6622						
24.0	6494	6479	6481	6485						
27.0	6334	6318	6327	6327						
30.0	6151	6143	6147	6148						
33.0	5952	5946	5948	5951						
36.0	5727	5722	5728	5724						
39.0	5484	5474	5478	5452						
42.0	5216	5206	5192	5161						
45.0	4926	4910	4876	4873						
48.0	4611	4575	4560	4559						
51.0	4271	4216	4221	4194						
54.0	3907	3844	3831	3830						
57.0	3509	3456	3440	3445						
60.0	2772	3023	3025	3017						
63.0	2252	2518	2578	2578						
66.0	1624	1864	2128	2133						

H(B) Range:-90 - 90DEG  
H(B) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:KAR  
Test Date:08 September 2021

V(B) Range:-180 - 180DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351  
Humidity:65.0%  
Test Distance:8.100m [K=1.0000]  
Remarks: NTB130-2835 인증시료

**Photometric Data Table [cd]**

69.0	1065	1315	1682	1674
72.0	715.5	781.7	1091	1234
75.0	424.5	474.2	631.3	819.4
78.0	73.57	213.4	303.1	467.4
81.0	34.72	37.29	115.0	177.8
84.0	25.81	26.65	29.46	49.30
87.0	21.06	20.83	21.22	21.88
90.0	18.63	18.96	19.23	19.61
93.0	20.46	20.84	21.11	21.42
96.0	22.48	22.89	23.14	23.52
99.0	24.68	25.12	25.40	25.78
102.0	27.04	27.51	27.79	28.15
105.0	29.49	30.00	30.27	30.65
108.0	32.08	32.58	32.87	33.21
111.0	34.74	35.24	35.48	35.87
114.0	37.47	37.92	38.18	38.58
117.0	40.20	40.65	40.93	41.32
120.0	42.94	43.39	43.64	44.06
123.0	45.67	46.10	46.34	46.75
126.0	48.32	48.71	48.93	49.34
129.0	50.89	51.22	51.45	51.84
132.0	53.36	53.66	53.87	54.31
135.0	55.75	56.03	56.24	56.74
138.0	58.06	58.33	58.59	59.20
141.0	60.31	60.63	60.97	61.68
144.0	62.58	62.96	63.37	64.16
147.0	64.92	65.34	65.77	66.61
150.0	67.34	67.76	68.19	69.05
153.0	69.79	70.17	70.64	71.45
156.0	72.24	72.56	73.10	73.84
159.0	74.63	74.97	75.48	76.13
162.0	76.97	77.32	77.75	78.33
165.0	79.31	79.54	79.89	80.35
168.0	81.40	81.49	81.74	82.07
171.0	83.17	83.17	83.34	83.54
174.0	84.73	84.65	84.70	84.76
177.0	85.93	85.72	85.68	85.60
180.0	86.48	86.12	86.01	85.90

**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 0.5DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:KAR**  
**Test Date:08 September 2021**

**V(B) Range:-180 - 180DEG**  
**V(B) Interval: 0.5DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351**  
**Humidity:65.0%**  
**Test Distance:8.100m [K=1.0000]**  
**Remarks: NTB130-2835 인증시료**

50% Beam Angle : 114▲-H X 111▲-V one-half-peak spread: U:56.0,D:55.8 , L:57.2,R:57.6

TOTAL FLUX : 19665 lm

LOR : 100.0%

AVAILABILITY FLUX : 19089 lm

AVAILABILITY : 97.1%

